1177
885 3
22 v
Sample
Ref

INDEX.

"A Concrete Water Tower," presented and discussed, 159.
ABBOTT, HUNLEY.—Transferred to Grade of Associate Member, 532.
Accessions to the Library, 21, 96, 129, 177, 222, 321, 406, 456, 498, 541.
ACKEMANN, HENRY CONRAD.—Elected a Junior, 53.
ACKERMAN, ARTHUR POPE.—Elected a Junior, 271.
ADAMS, CHARLES ROBERT.—Elected an Associate Member, 52.
AEGERTER, ALBERT AUGUST.—Elected an Associate Member, 121.
ALDERSON, WILLIAM HOWARD.—Transferred to Grade of Associate Member, 122.
ALEXANDER, LEON BARTON.—Elected a Junior, 489.
ALFORD, WILLIAM VALORUS.—Elected an Associate Member, 488.
ALLARD, T. T.—Discussion by, 487.
ALLEN, ANDREWS.—Discussion by, 119.
ALLEN, CHESTER SALISBURY.—Transferred to Grade of Associate Member, 448.
ALLEN, HAROLD DAYTON.—Transferred to Grade of Associate Member, 532.
ALLEN, HENRY C.—On Nominating Committee, 50, 58.
ALLEN, KENNETH.—Discussion by, 213.
ALLEN, RAYMOND CLEAVELAND.—Elected an Associate Member, 530.
ALLISON, WILLIAM FRANKLIN.—Elected an Associate Member, 446.
Amendment to Constitution.—Text of Proposed, 492.
American Institute of Mining Engineers.—Announcement Relating to Meeting of, at Canal Zone, 395.
ANDERBERG, EDWARD.—Transferred to Grade of Associate Member, 122.
ANDERSON, DAVID GUY.—Transferred to Grade of Member, 215.
ANDERSON, GEORGE GRAY.—Paper by, 119.
ANDRESS, HARRY R.—Elected an Associate Member, 266.
ANDREWS, HORACE.—On Publication Committee, 55.
ANDROS, FREDERIC WILLIAM.—Transferred to Grade of Member, 397.
ANGEL, FLOYD DWIGHT.—Elected an Associate Member, 446.
ANGIER, W. E.—On Committee of Arrangements for Annual Convention, 165.
Announcements, 6, 91, 124, 165, 217, 315, 400, 449, 491, 534.
Annual Convention, 42d.—Time and Place Announced, 161, 164; Appointment of Committees of Arrangements for, 165; Minutes of Meetings of, 269, 270, 274; Excursions and Entertainments at, 308; Attendance at, 310.
Annual Convention, 43d.—Report of Secretary Relative to Time and Place for Holding, 269, 287.
Annual Meeting.—Minutes of, 49, 57; Announcements at, 51, 75; Excursions and Entertainments at, 79; Attendance at, 79.
ARCHBALD, JAMES.—Death announced, 488.
ARMSTRONG, ALEXANDER FLOYD.—Transferred to the Grade of Member, 532.
ASH, LOUIS RUSSELL.—Transferred to Grade of Member, 397.
ATWELL, HARRY HURD.—Transferred to Grade of Associate, 4.
ATWOOD, CHESTER ELY.—Elected a Junior, 53.
ATWOOD, T. C.—Discussion by, 529.
ATWOOD, WILLIAM GREENE.—Transferred to Grade of Member, 489.
AVERILL, JAMES LELAND.—Elected an Associate Member, 530.
AVERY, FREDERICK HAGUE.—Elected a Member, 266.
AWOYAMA, AKIRA.—Elected an Associate Member, 161.

AYER, FREDERIC EUGENE.—Elected an Associate Member, 266.
AYRES, JOHN HENRY.—Elected an Associate Member, 488.
AYRES, WILLIS EDWARD.—Elected a Member, 266.

BACKUS, MURRAY JAMES.—Elected a Junior, 447.
BACON, ARTHUR WHITTEMORE. — Transferred to Grade of Associate Member, 216.
BAFFREY, CHARLES RAYMOND.—Elected a Member, 2.
BAILEY, CLIFTON GEORGE.—Elected a Junior, 397.
BAINES, WILLIAM HENRY.—Elected a Junior, 397.
BAKE, WILLIAM SIBSON.—Elected an Associate Member, 2.
BAKER, NED DUNCAN.—Elected a Junior, 531.
BALL, ERNEST STEARNS.—Death announced, 2.
BAMFORD, WILLIAM BROKAW.—Paper by, 51; Transferred to Grade of Member, 268.
BANTA, RUSSELL VINCENT.—Elected a Junior, 267.
BARKER, LOUIS H.—Paper by, 445.
BARLOW, JAMES EVANS.—Transferred to Grade of Associate Member, 122.
BARNARD, ELMER ELLSWORTH.—Transferred to Grade of Associate Member, 216.
BARNARD, JOHN FISKE.—Death announced, 120.
BARNES, FRANK WILLIAM, JR.—Elected an Associate Member, 530.
BARNES, OSGOOD FROST.—Elected a Member, 270.
BARNEY, WILLIAM JOSHUA.—Elected a Junior, 162.
BARR, JOSEPH CARROLL.—Transferred to Grade of Member, 489.
BARRETT, ROBERT EDWARD.—Transferred to Grade of Associate Member, 532.
BATCHELDER, BENJAMIN FRANKLIN.—Elected an Associate Member, 2.
BATES, JOHN SCHUYLER.—Elected an Associate Member, 121.
BATES, ONWARD.—Presides at Meeting, 49; On John Fritz Medal Board of Award, 55.
BATES, PHILO H.—Discussion by, 119.
BAUM, HARRY WILLIAM.—Elected a Member, 446.
BEARD, VIVIAN DANGERFIELD.—Elected a Junior, 162.
BEBOUT, GUY BURNET.—Elected an Associate Member, 270.
BECKER, ELVIN JAY.—Transferred to Grade of Associate Member, 122.
BEDFORD, THOMAS ARCHIBALD. — Elected a Member, 396.
BEEBE, JOHN CLEAVELAND.—Elected a Junior, 489.
BEHRMAN, ISADORE.—Elected a Junior, 447.
BELKNAP, WILLIAM E.—Elected Director, 51, 77; On Publication Committee, 55; Presides at Meeting, 265.
BELL, HOWARD FRED.—Elected a Junior, 267.
BELZNER, THEODORE.—Transferred to Grade of Associate, 216.
BENHAM, WEBSTER LANCE.—Elected an Associate Member, 161.
BENSEL, JOHN A.—Elected President, 51, 77; Address by, 51, 78, 269, 277; Presides at Meeting, 159, 160, 266, 269, 270, 274, 487, 530. On Committee on the Licensing of Civil Engineers, 171.
BENTLEY, JOHN CLARK.—Elected an Associate Member, 267.
BERTHELET, J. R.—Resignation accepted, 4.
BEVAN, LYNNE JOHN.—Elected an Associate Member, 214.
BEYER, ALBIN H.—Discussion by, 159.
BHAGWAT, SHANKER RAMCHANDRA.—Elected a Junior, 447.
BIGELOW, WILLIAM WALTER.—Elected a Junior, 53.
BINCKLEY, GEORGE SYDNEY.—Elected a Member, 161.
BINFORD, CHARLES MUNNERLYN.—Elected an Associate Member, 530.
BINGHAM, CLARENCE ARMINGER.—Transferred to Grade of Associate Member, 4.
BISCHOFF, JULIUS MONTGOMERY. — Elected an Associate Member, 2.
BIXBY, WILLIAM FLINT.—Transferred to Grade of Associate Member, 163.

BLACK, ERNEST BATEMAN.—Elected an Associate Member, 488.
BLACK, R. P.—Paper by, 395.
BLANCHARD, ARTHUR CLARENCE DOUGLAS.—Elected an Associate Member, 161.
BLANCHARD, MURRAY.—Transferred to Grade of Member, 532.
BLICKLE, HERMAN RENNER.—Elected a Member, 488.
BLODGETT, JOHN.—Transferred to Grade of Member, 489.
BLUM, LOUIS PHILIP.—Elected a Member, 266.
Board of Direction.—Report of, 11, 49, 57; Resolution of, Relative to Status of Civil Engineers in Engineer Corps of the United States Army, 123; Resolution of, Relative to Proposed Legislation on the Licensing of Civil Engineers, 160, 164, 171; Report of, Relative to Appointment of Proposed Committee on the Preservation of Wood, 269, 273, 282.
BOIG, ALEXANDER FLETCHER.—Elected a Junior, 489.
BOLLER, ALFRED P.—Nominated as Vice-President, 450.
BOLTON, FRANK LEONARD.—Elected a Junior, 271.
BOND, PAUL STANLEY.—Elected a Member, 530.
"Bond-Friction-Resistance in Reinforced Concrete," presented and discussed, 530.
BONIFACE, ARTHUR.—Transferred to Grade of Associate Member, 448.
BOOTH, ARTHUR ALLEN.—Elected a Member, 270.
BORING, W. A.—Discussion by, 52.
BORNEFELD, CHARLES FOWLER.—Elected a Junior, 267.
BORTIN, HARRY.—Elected a Junior, 397.
BOUDE, PHILIP BETHEL.—Elected an Associate Member, 121.
BOURGUIGNON, JOSEPH.—Elected an Associate Member, 267.
BOWLES, CHARLES WILLIAM.—Elected an Associate Member, 396.
BOWMAN, A. L.—Presides at Meeting, 446, 529.
BOWMAN, W. L.—Discussion by, 52.
BRACE, JAMES H., FRANCIS MASON, and S. H. WOODARD.—Paper by, 1.
BRACKETT, DEXTER.—On Library Committee, 55.
BRANN, EMMETT RAYMOND.—Elected a Junior, 531.
BRANNE, J. S.—Discussion by, 119.
BREED, OLIVER CLARK.—Elected a Member, 396.
BROGAN, THOMAS BYRNES.—Elected an Associate Member, 52.
BRONSON, HOWARD FRANKLIN.—Elected a Junior, 489.
BROSIUS, ALBERT MARSHALL.—Elected a Member, 121.
BROWN, FRANK DUDLEY.—Elected a Member, 446.
BROWN, HARRY WILLIAM.—Elected an Associate Member, 161.
BROWN, JOSEPH HENRY, JR.—Elected an Associate, 271.
BROWN, LINUS WEED.—Death announced, 163.
BROWN, ROBERT HUSE.—Transferred to Grade of Associate Member, 163.
BROWN, SEYMOUR DEWEY.—Elected an Associate Member, 446.
BROWN, STEPHEN PEARSON.—Transferred to Grade of Member, 490.
BROWN, W. L., and B. H. M. HEWETT.—Paper by, 266.
BROWN, WALTER HENRY.—Elected a Member, 266.
BRUCE, JOHN AUGUSTUS.—Elected an Associate Member, 396.
BRUNER, ABRAHAM.—Elected a Member, 121.
BRUNTLETT, EUGENE HARRY.—Transferred to Grade of Associate Member, 272.
BRYANT, BYRON HARKNESS.—Elected a Member, 396.
BUCHANAN, NATHAN BOOKER.—Elected a Junior, 122.
BUDD, ROBERT DUNN.—Elected a Member, 446.
BUEHLER, WALTER.—Transferred to Grade of Member, 3.
BUEL, EMOTT DAVIS.—Elected a Member, 270.
BUELL, WALTER AUGUSTUS.—Elected a Junior, 447.
BUETTNER, OTTO GEORGE HENRY.—Elected a Junior, 267.
"Building Agreements," presented and discussed, 51.
BULLEN, ROY.—Transferred to Grade of Associate Member, 122.

BUNKER, PAUL D.—Resignation accepted, 4.
BUNKER, STEPHEN SANS.—Elected an Associate Member, 446.
BURGER, WILLIAM HENRY.—Elected a Member, 488.
BURKE, HUBERT FRANCIS DAUBENY. —Elected a Member, 52.
BURKE, RALPH HANEY.—Transferred to Grade of Associate Member, 448.
BURNHAM, D. H.—Lecture by, 270.
BURNS, WALTER ELLIOTT.—Transferred to Grade of Associate Member, 532.
BURR, WILLIAM H.—Discussion by, 160; On Committee on the Licensing of Civil Engineers, 171.
BURROUGHS, FREDERIC.—Transferred to Grade of Associate Member, 216.
BURROUGHS, HECTOR ROBINS.—Transferred to Grade of Associate Member, 398.
BURT, LUTHER HAROLD.—Elected an Associate Member, 488.
BUSH, ADAM LEONARD.—Elected an Associate Member, 446.
BUSH, LINCOLN.—Discussion by, 2.
BUSSE, FRANZ AUGUST.—Elected an Associate Member, 161.
BUTLER, GEORGE.—Elected an Associate Member, 396.
BUXTON, CLIFFORD.—Death announced, 54.

CADLE, CHARLES LONGFORD.—Elected an Associate Member, 488.
CADWALLADER, WALLACE LAIRD. — Elected a Junior, 397.
CALDWELL, FRED EDWARD.—Transferred to Grade of Associate Member, 53.
CALHOUN, DAVID ADAMS. — Transferred to Grade of Associate Member, 268.
CALKINS, CHARLES DOW.—Elected a Junior, 162.
CAMPBELL, J. L.—Paper by, 214.
CARLIN, JOSEPH PATRICK.—Transferred to Grade of Member, 268.
CARO, PHILLIP.—Elected an Associate Member, 488.
CARPENTER, A. W.—Discussion by, 487.
CARPENTER, JOHN EARL.—Resignation accepted, 4.
CARR, DEAN ORRICE.—Elected an Associate Member, 446.
CARTER, W. J.—Appointed to Canvass Ballot for Officers, 49, 57.
CARTLIDGE, C. H.—On Committee of Arrangements for Annual Convention, 165.
CARTWRIGHT, HENRY HART.—Elected a Junior, 447.
CARY, RICHARD LUCIUS.—Elected a Junior, 271.
CASE, GEORGE WILKENSON.—Elected an Associate Member, 396.
CASPARI, FREDERICK WILLIAM. — Elected a Junior, 489.
CEFALU, FRANK DOMINIC.—Elected a Junior, 162.
Cement, Committee on Uniform Tests of.—Majority and Minority Reports of, 50, 66.
CHANDLER, ELWYN FRANCIS.—Elected an Associate Member, 52; Discussion by, 530.
CHANUTE, OCTAVE.—Death announced, 532.
CHAPPELL, CLAUDE EDWARD.—Transferred to Grade of Associate Member, 398.
CHASE, FRANK DAVID.—Elected an Associate Member, 270.
CHASSAING, CHARLES WILLIS. — Elected an Associate Member, 396.
CHENOWETH, ALEXANDER C.—Discussion by, 265.
CHIBA, TOSHITOMO.—Transferred to Grade of Associate Member, 398.
CHRISTIAN, CHARLES MERIWETHER.— Elected an Associate, 489.
CHURCH, GEORGE EARL.—Death announced, 54.
CHURCHILL, CHARLES S.—On Finance Committee, 55.
Civil Engineers, Licensing of.—Telegram Relative to Proposed Legislation on, 160; Statement of Secretary Relative to Action of the Society on Proposed Legislation on, 160, 171; Resolution of the Board of Direction Relative to Proposed Legislation on, 160, 164, 171; Discussion on, 160; Resolution Relative to the Appointment of a Committee on, 161; Appointment of Committee

on, 171; Report of Committee on, 269, 299; Discussion on Report of Committee on, 303; Appointment of Corporate Members in each State to Co-operate with Board in Relation to, 448.

Civil Engineers, Status of in Engineer Corps of United States Army.—Resolution of Board Relative to, 123; Bill Relative to, 166.

CLARK, ARTHUR EDWARD.—Elected an Associate Member, 446.

CLARK, ARTHUR PIERSON.—Elected an Associate Member, 530.

CLARKE, GEORGE C.—Paper by, 214, 445; Nominated as Director, 450.

CLARKE, ST. JOHN.—Discussion by, 2.

CLEVELAND, HENRY BURDETT.—Elected an Associate Member, 267.

CLIFFORD, WALTER W.—Discussion by, 159.

COCHRANE, VICTOR HUGO.—Transferred to Grade of Member, 532.

COE, ROBERT.—Elected an Associate Member, 396.

COLE, HARRY OUTEN.—Transferred to Grade of Member, 215.

COLEMAN, LESTER LYMAN.—Elected a Junior, 267.

Collingwood Prize.—Award of, 52, 56.

COLLINS, FRANCIS WINFIELD.—Transferred to Grade of Associate Member, 398.

COLLINS, STEWART GARFIELD.—Elected an Associate Member, 488.

COLMAN, JAMES BLAINE THOMAS.—Elected a Junior, 489.

Colorado Association of Members of the American Society of Civil Engineers.—Abstract of Minutes of Meetings of, 10, 95, 128, 174, 219, 317, 318, 454, 495, 538; Correspondence with, Relative to the Appointment of a Special Committee on the Preservation of Wood, 120.

COLTMAN, ROBERT, 3d.—Elected an Associate Member, 446.

Committee on Bituminous Materials for Road Construction.—Progress Report of, 50, 62, 569.

Committee on Concrete and Reinforced Concrete.—Progress Report of, 51, 76.

Committee on Engineering Education.—Progress Report of, 50, 65.

Committee on Finance.—Appointment of, 55.

Committee on Library.—Appointment of, 55.

Committee on Nominations.—Appointment of, 50, 57; Presents List of Nominees, 450.

Committee on Publications.—Appointment of, 55.

Committee on Rail Sections.—Progress Report of, 50, 62; Final Report of, 269, 291.

Committee on Steel Columns and Struts.—Progress Report of, 50, 59; Discussion on Progress Report of, 60.

Committee on the Licensing of Civil Engineers.—Resolution Relative to Appointment of, 161; Appointment of, 171; Report of, 269, 299; Discussion on Report of, 303.

Committee on the Preservation of Wood.—Correspondence Relative to Appointment of, 120; Resolution Relative to Appointment of, 121; Report of Board of Direction Relative to Appointment of, 269, 273, 282; Discussion on Appointment of, 283.

Committee on the Status of the Metric System in the United States.—Final Report of, 50, 69.

Committee on Uniform Tests of Cement.—Majority and Minority Reports of, 50, 66.

Committee to Recommend the Award of Prizes.—Report of, 52, 55.

Committees of Arrangements for Annual Convention, 42d.—Appointment of, 165.

COMSTOCK, HAROLD DEARBORN.—Elected an Associate Member, 161.

Concrete and Reinforced Concrete, Committee on.—Progress Report of, 51, 76.

CONNELL, HENRY LEO.—Elected an Associate Member, 2.

CONNICK, HARRIS DE HAVEN.—Transferred to Grade of Member, 53.

CONNOR, WILLIAM DURWARD.—Transferred to Grade of Member, 268.

CONOVER, CHARLES E.—Elected a Member, 488.
CONROW, HERMAN.—Resignation accepted, 4.
Constitution, Proposed Amendment to.—Text of, 492.
COOK, HORACE ARTHUR.—Elected an Associate Member, 214.
COOK, JOHN HENRY.—Transferred to Grade of Member, 3.
COOPER, WILLIAM H.—Resignation accepted, 4.
COPE, ERLE LONG.—Transferred to Grade of Associate Member, 532.
CORBETT, J.—Discussion by, 121.
CORNELL, JOHN WESLEY.—Elected an Associate Member, 270.
CORNISH, LORENZO DANA.—Transferred to Grade of Member, 271.
COUCHOT, GEORGE JOHN.—Elected an Associate Member, 214.
COUCHOT, MAURICE C.—Discussion by, 159.
COURTENAY, WILLIAM H.—Nominated as Director, 450.
COWLES, L. S.—Appointed Teller to Canvass Ballot for Officers, 49, 57.
COWLES, WILLIAM PIERCE.—Transferred to Grade of Member, 215.
COYNE, HARRY LEWIS.—Transferred to Grade of Associate Member, 272.
COX, CHARLES BARROWS.—Elected an Associate Member, 396.
CRANDALL, LYNN.—Elected a Junior, 531.
CRAVEN, JAY ALLEN.—Elected a Junior, 267.
CRAWLEY, ERNEST WILLARD.—Transferred to Grade of Associate Member, 398.
CRESSON, B. F., JR.—Paper by, 161.
CROASDALE, LAURENCE BRODHEAD.—Elected a Junior, 267.
CROCKARD, FRANK HEARNE.—Elected a Member, 446.
CROSBY, W. W.—Discussion by, 119.
CROW, EDWARD.—Transferred to Grade of Associate Member, 272.
CROWE, FRANCIS TRENHOLM.—Elected an Associate Member, 214.
CUDDEBACK, ALLAN WINTER.—Transferred to Grade of Member, 122.
CUNTZ, WILLIAM COOPER.—Elected an Associate, 397.
CURFMAN, LAWRENCE EVERETT.—Elected an Associate Member, 530.
Current Engineering Literature.—31, 102, 142, 193, 237, 352, 419, 471, 511, 549.
CURREY, JESSE ALBERT.—Elected an Associate, 53.
CURREY, JOHN WAGGONER.—Elected a Junior, 397.
CURRIER, ALBERT MOORE.—Elected an Associate Member, 214.
CURRY, C. W.—Resignation accepted, 4.
CURTIS, LOREN BRADLEY.—Transferred to Grade of Member, 490.
CUSHING, BRUCE LINCOLN.—Elected an Associate Member, 446.
CUTLER, ALVIN SAYLES.—Elected an Associate Member, 52.
CUTLER, LEON GEORGE.—Elected a Junior, 162.
CUTTING, GEORGE WARREN, JR.—Elected an Associate Member, 214.

DALLIS, PARK ANDREW.—Transferred to Grade of Member, 4.
DALY, DAVID AUGUSTUS.—Elected an Associate Member, 267.
DAMBACH, WILLIAM NICHOLAS.—Elected an Associate Member, 396.
DARNELL, JAMES LEE.—Elected a Member, 446.
DAVENPORT, ROYAL WILLIAM.—Elected a Junior, 447.
DAVIS, J. L.—Discussion by, 119.
DAVIS, ROLAND PARKER.—Elected a Junior, 122.
DAVISON, ALLEN STEWART.—Elected a Junior, 122.
DAWLEY, EDWIN PELEG.—Death announced, 488.
DAWSON, JAY BOSWORTH.—Elected an Associate Member, 271.
DAY, WARREN ELLIS.—Elected a Junior, 531.
DAY, WARREN FRENCH.—Elected an Associate Member, 530.
DAY, WILLIAM PEYTON.—Transferred to Grade of Associate Member, 122.
DECROW, DAVID AUGUSTUS.—Elected a Member, 446.
DEGEN, OTTO WILLIAM.—Elected a Member, 161.
DEMOREST, GEORGE MYRON.—Elected an Associate Member, 271.

DENISE, CHARLES MEIRS.—Elected a Member, 214.
DERR, HOMER MUNRO.—Elected an Associate Member, 3.
DERRICK, CLARENCE.—Elected an Associate Member, 446.
DERRICK, GUY HAMILTON.—Elected a Member, 214.
DEYOUNG, ISAAC.—Transferred to Grade of Member, 4.
DICKERSON, JOHN THOMAS.—Elected an Associate Member, 161.
DICKINSON, WILLIAM DEWOODY.—Elected an Associate Member, 214.
DIEHL, GEORGE CONRAD.—Elected a Member, 266.
DIETRICH, WILLIAM HENRY.—Elected an Associate Member, 3.
DIMOCK, ARTHUR HERBERT.—Elected a Member, 266.
D'INVILLIERS, CAMILLE STANISLAUS—Death announced, 54.
DITTOE, WILLIAM HENRY.—Elected a Junior, 215.
DOBSON, GUY ELLSWORTH.—Elected an Associate Member, 267.
DODDS, DAVID METHENY.—Elected a Junior, 489.
DOOLITTLE, FREDERICK WILLIAM.—Elected a Junior, 162.
DOW, WILLIAM GREAR.—Elected an Associate Member, 530.
DOWNS, LAWRENCE ALOYSIUS.—Elected a Member, 396.
DOYING, WILLIAM ALBERT EDWARD.—Elected an Associate Member, 52.
DOYLE, EDMUND HENRY.—Elected an Associate Member, 488.
DOYLE, JOHN STEPHEN.—Transferred to Grade of Member, 215.
DRAGER, WALTER LOUIS.—Elected a Junior, 215.
DUDLEY, CHARLES BENJAMIN.—Death announced, 4.
DUMOULIN, WALTER LOUIS.—Elected a Junior, 53.
DUNCAN, DORSEY BERRY.—Elected an Associate Member, 267.
DUNCAN, JAMES HARPER.—Transferred to Grade of Associate Member, 53.
DUNGLINSON, GEORGE, JR.—Elected an Associate Member, 488.
DUNLOP, SAMUEL CAMPBELL.—Elected an Associate Member, 530.
DUNN, OSWALD THORPE.—Elected an Associate Member, 396.
DYGERT, HARRY ISAIAH.—Elected an Associate Member, 214.

EBASHI, TEIJI.—Elected an Associate Member, 446.
EBER, JOHN WILLIAM.—Transferred to Grade of Member, 397.
EBERLY, CLARENCE FREDERICK.—Elected an Associate Member, 396.
EDDY, ADOLPHUS JAMES.—Elected a Junior, 531.
EDDY, ALBERT CLARK.—Elected a Member, 530.
EDWARDS, DEAN GRAY.—Transferred to Grade of Associate Member, 54.
EDWARDS, HAROLD.—Elected an Associate Member, 396.
EDWARDS, LLEWELLYN NATHANIEL.—Elected an Associate Member, 121.
EDWARDS, WARRICK RIGELEY.—Transferred to Grade of Member, 397.
EGBERT, WARREN.—Elected an Associate Member, 488.
EHLE, BOYD.—Transferred to Grade of Member, 53.
EIDE, TORRIS.—Elected a Junior, 397.
EITZEN, ARTHUR ROBERT.—Transferred to Grade of Associate Member, 490.
ELLIOTT, JAMES WILLIAM.—Transferred to Grade of Member, 271.
ELLIS, HERBERT CRAM.—Elected a Junior, 162.
ELLMS, JOSEPH W.—Discussion by, 121.
ELLSTROM, VICTOR EDWIN.—Elected an Associate Member, 530.
EMERSON, RAFFE.—Elected an Associate Member, 271.
EMIGH, JOHN H.—Death announced, 54.
EMIGH, WILLIAM CHESTER.—Elected a Junior, 267.
ENDICOTT, MORDECAI T.—Nominated as President, 450.
Engineering Education, Committee on.—Progress Report of, 50, 65.
ENGLISH, C. C.—Resignation accepted, 4.
ENSEY, RICHARD FAHNESTOCK.—Elected an Associate Member, 161.

ENSIGN, GUERT WILLIAM.—Transferred to Grade of Member, 397.
ENTEMANN, PAUL MAX.—Elected a Junior, 122.
ERDMANN, EARL EDWIN.—Death announced, 216.
ESTEP, JOSIAH MADISON.—Elected a Member, 121.
EVANS, W. A.—Address by, 269, 274.

FANNING, JOHN T.—Elected Vice-President, 51, 77; On Library Committee, 55.
FARLEY, PHILIP PATRICK.—Transferred to Grade of Member, 53.
FARNHAM, ROBERT, JR.—Transferred to Grade of Member, 162.
FARRINGTON, HAROLD PHILLIPS.—Elected a Junior, 162.
"Federal Investigations of Mine Accidents, Structural Materials, and Fuels, at the United States Testing Station, Pittsburg, Pa.," presented and discussed, 213.
FERRIS, RAYMOND WEST.—Elected a Junior, 215.
FERTIG, JEROME HENRY.—Transferred to Grade of Associate Member, 122.
FIELD, FREDERICK ELBERT.—Transferred to Grade of Member, 397.
FILLEY, OLIVER DWIGHT.—Elected a Member, 161.
Finance Committee.—Appointment of, 55.
FISCHER, GUILLERMO GUSTAVO.—Transferred to Grade of Associate Member, 532.
FITZGERALD, DESMOND.—Presents Report of Special Committee on Engineering Education, 50, 64.
FITZGERALD, WALTER LEWIS.—Elected an Associate Member, 214.
FITZPATRICK, JAMES RAYMOND.—Elected an Associate Member, 267.
FITZRANDOLPH, WILLIAM SHEPPARD.—Transferred to Grade of Associate Member, 398.
FLEEGER, BURTNER.—Elected a Junior, 531.
FOOTE, ARTHUR DEWINT.—Elected Director, 51, 77.
FORBES, FRANCIS BONNER.—Elected a Junior, 215.
FORD, HARRY CLIFFORD.—Transferred to Grade of Associate Member, 54.
FORD, HOWARD CARLTON.—Transferred to Grade of Associate Member, 268.
FORD, WILLIAM ELLIS.—Elected an Associate Member, 121.
FORGIE, JAMES.—Presents paper, 266.
FOSS, JOHN HARRISON.—Transferred to Grade of Associate Member, 448.
FOX, WILLIAM FREDERICK.—Elected a Junior, 162.
FRASER, CHARLES E.—Discussion by, 2.
FREDERICKSON, JOHN HENRY.—Elected a Member, 488.
FRENCH, J. B.—Discussion by, 487.
FRISBIE, HENRY CHARLES.—Elected a Junior, 447.
FRIZELL, JOSEPH PALMER.—Death announced, 266.
FRY, ALFRED BROOKS.—Elected a Member, 530.
FULLER, ALMON HOMER.—Transferred to Grade of Member, 216.
FULLER, WILLIAM B.—Discussion by, 121.
FULTON, JAMES EDWARD.—Elected a Member, 446.
FULWEILER, WALTER HERBERT.—Elected an Associate Member, 488.
FUQUA, PAUL DAVID.—Elected an Associate Member, 446.

GADD, ROBERT FOSTER.—Elected a Member, 396.
GAINES, R. H.—Discussion by, 119.
GARD, HERMON YANCY.—Elected a Junior, 3.
GARDINER, F. W.—Discussion by, 487.
GARDINER, JOHN PEDEN.—Transferred to Grade of Member, 397.
GARDNER, W. L.—On Committee of Arrangements for Annual Convention, 165.
GARNETT, BENJAMIN JAY.—Elected a Junior, 489.
GARRETT, JOHN THOMAS.—Transferred to Grade of Member, 397.
GARRIGUES, HENRY HAYDOCK.—Transferred to Grade of Associate Member, 272.
GARVER, NEAL BRYANT.—Elected an Associate Member, 214.

GARVEY, VICTOR HUGO.—Elected a Junior, 489.
GASS, ELMER JOHN.—Elected an Associate Member, 531.
GAUMER, ALBERT WESLEY.—Elected an Associate Member, 267.
GAY, HOWARD SPOONER.—Elected an Associate Member, 531.
GAY, MARTIN.—Discussion by, 2.
GAYLORD, CLIFFORD WILLARD.—Elected a Junior, 447.
GAYNOR, KEYES CHRISTOPHER. — Elected a Junior, 271.
GEHLER, GUSTAV WILLY.—Elected a Member, 161.
GEHRING, HERBERT AUGUST.—Elected an Associate Member, 214.
GESTER, WILLIAM BURR.—Elected a Member, 446.
GIBSON, JAMES EDWIN.—Elected a Member, 396.
GIDEON, ABRAHAM.—Transferred to Grade of Member, 490.
GILKISON, GORDON MERCER.—Elected a Junior, 489.
GILL, HAROLD EARLE.—Elected a Junior, 489.
GILLESPIE, CHESTER GORDON.—Elected a Junior, 397.
GILMORE, ALVIN LEROY.—Transferred to Grade of Associate, 448.
GLANDER, JOHN HENRY, JR.—Elected a Junior, 215.
GOAD, CHARLES EDWARD.—Death announced, 398.
GODFREY, EDWARD.—Paper by, 159; Discussion by, 530.
GOETHALS, GEORGE WASHINGTON.—Elected a Member, 121.
GOLDSMITH, CLARENCE.—Elected an Associate Member, 531.
GÓMEZ, PASTOR.—Elected a Junior, 122.
GOODMAN, LEON.—Elected an Associate Member, 271.
GOODRICH, E. P.—Discussion by, 159, 265, 530.
GORDON, SAMUEL.—Elected a Junior, 447.
GORTON, WILLARD LIVERMORE. — Elected an Associate Member, 214.
GOVE, WILLIAM GRANVILLE.—Transferred to Grade of Member, 53.
GRAHAM, GUY ALEXANDER.—Elected a Junior, 397.
GRAHAM, JOHN WILLIAM.—Elected a Junior, 447.
GRANNIS, JAMES KIDWELL.—Elected a Junior, 397.
GRANT, JOSEPH ALEXANDER.—Elected an Associate Member, 267.
GRANT, WILLIAM.—Elected a Member, 52.
GRAVES, WALTER JOSEPH. — Transferred to Grade of Member, 4.
GRAY, EDWARD.—Transferred to Grade of Member, 532.
GRAY, HAROLD FARNSWORTH.—Elected a Junior, 3.
GRAY, HARRY WOY.—Elected an Associate Member, 488.
GREEN, F. M.—Paper by, 445.
GREEN, THEODORE.—Elected an Associate Member, 121.
GREENFIELD, ROBERT ARTHUR.—Elected a Member, 446.
GREGORY, C. E.—Discussion by, 265.
GREGORY, JOHN H.—Paper by, 121.
GREINER, J. E.—On Nominating Committee, 50, 58.
GRIGGS, JULIAN.—Discussion by, 121.
GRIMM, C. R.—Paper by, 488.
GRISWOLD, LEE SWANEY.—Elected an Associate Member, 531.
GROAT, BENJAMIN FELAND.—Elected an Associate Member, 214.
GUGERTY, E. J.—Resignation accepted, 4.
GUNTHER, CHARLES OTTO.—Elected an Associate, 397.

HADLEY, HOMER MORE.—Elected a Junior, 162.
HAGUE, WILLIAM.—Elected an Associate Member, 447.
HAINES, EUGENE GROVE.—Transferred to Grade of Member, 162.
HALE, RICHARD KING.—Transferred to Grade of Associate Member, 54.
HALL, CHARLES LACEY.—Elected a Junior, 271.
HALL, HUBERT HARRY.—Transferred to Grade of Associate Member, 216.
HALL, JOSEPH EMMETT.—Elected a Junior, 271.
HALL, ROBERT ELLIOT.—Transferred to Grade of Associate Member, 272.

HALL, WARREN ESTERLY.—Transferred to Grade of Associate Member, 272.
HALL, WILLIAM HENRY.—Elected an Associate Member, 447.
HALSEY, MILO CLINTON.—Elected a Junior, 271.
HAMILL, WILLIAM SAMUEL.—Elected an Associate Member, 121.
HAMILTON, FRANK HENRY.—Elected a Member, 270.
HAMMATT, W. C.—Discussion by, 529.
HAMMEL, EDWARD FREDERIC.—Elected a Junior, 53.
HAMMOND, CHARLES LINCOLN.—Elected a Member, 214.
HANAVAN, WILLIAM LAWRENCE.—Transferred to Grade of Associate Member, 532.
HANCOCK, HENRY SYDNEY, JR.—Transferred to Grade of Associate Member, 163.
HANLEY, WILLIAM SCOTT.—Elected an Associate Member, 488.
HANNAH, MANTON.—Elected a Junior, 489.
HANSEN, ANDREW CHRISTIAN.—Elected a Member, 446.
HARDING, HARRY SPEAR.—Elected a Junior, 267.
HARDING, HENRY.—Death announced, 490.
HARRINGTON, ARTHUR WILLIAM.—Elected a Junior, 531.
HARRIS, ARCHIE LEE.—Elected an Associate Member, 267.
HARRIS, CHARLES MARSHALL.—Death announced, 2.
HARRIS, FREDERIC ROBERT.—Elected a Member, 270.
HARRIS, GEORGE HENRY.—Elected an Associate Member, 214.
HARRISON, CHARLES L.—On Publication Committee, 55.
HARROD, TOM HIND HUDSON.—Elected a Junior, 53.
HART, R. A.—Discussion by, 119.
HARTING, OTTO FREDERICK.—Elected an Associate Member, 161.
HARTMAN, RUSSELL THEODORE.—Transferred to Grade of Member, 490.
HARTMANN, ERNEST FREDERICK.—Elected an Associate, 3.
HARTS, WILLIAM W.—Discussion by, 529.
HARTUNG, PAUL AUGUST.—Elected an Associate Member, 396.
HARVEY, CLARKE KENNERLEY.—Elected an Associate Member, 215.
HARWOOD, THOMAS TRIPLETT HUNTER.—Elected a Member, 161.
HASBROUCK, CHARLES ALFRED.—Death announced, 163.
HASELWOOD, FRED WILLIS.—Transferred to Grade of Associate Member, 398.
HASTINGS, EDGAR MORTON.—Elected an Associate Member, 271.
HASTINGS, FRANK ARNOLD.—Transferred to Grade of Member, 268.
HAVENS, WILLIAM WESTERFIELD.—Elected a Junior, 531.
HAWKESWORTH, JOHN.—Paper by, 119.
HAWLEY, CHARLES RAY.—Transferred to Grade of Associate Member, 163.
HAYES, ANDREW JENKINS.—Elected an Associate Member, 396.
HAYES, CHARLES EDWARD.—Transferred to Grade of Associate Member, 268.
HAYNES, CLAUDE SANFORD.—Elected an Associate Member, 3.
HAYS, DAVID WALKER.—Elected an Associate Member, 267.
HAYS, DONALD SYMINGTON.—Elected an Associate Member, 447.
HAYT, ROBERT OLCOTT.—Transferred to Grade of Member, 272.
HAZEN, ALLEN.—Discussion by, 121, 160.
HEALEY, CHARLES FRANK.—Elected an Associate Member, 271.
HEALEY, JOHN PAUL.—Elected an Associate Member, 531.
HEISER, ALFRED BRACKENRIDGE.—Elected a Junior, 489.
HEISER, WILLIAM JOSEPH.—Elected a Junior, 489.
HENDERSON, JOHN TAYLOR.—Elected a Junior, 489.
HENDRICKS, KEARNEY EVERETT.—Elected an Associate Member. 447.
HENES, HARRY WILLIAM.—Elected a Junior, 267.
HENRY, GEORGE JACKSON, JR.—Elected a Member, 161.

HERING, RUDOLPH.—Discussion by, 119.
HERSCHEL, CLEMENS.—Discussion by, 530.
HEWETT, B. H. M., and W. L. BROWN. —Paper by, 266.
HEWIT, BENJAMIN HARTLEY.—Elected a Junior, 215.
HICKOK, CLIFTON EWING.—Elected a Junior, 531.
HIDINGER, LEROY LEMAYNE.—Elected an Associate Member, 447.
HIGGINS, CHARLES H.—Discussion by, 52.
HILL, JOHN J.—Elected an Associate Member, 161.
HILTS, HAROLD EZRA.—Elected an Associate Member, 267.
HIRSCH, JOHN GEORGE.—Elected a Junior, 271.
HODGMAN, HARRY.—Transferred to Grade of Member, 268.
HOLBROOK, WINFIELD.—Transferred to Grade of Associate Member, 448.
HOLLOWAY, ROGER TIFFT.—Elected a Junior, 267.
HOLMES, LEMUEL.—Elected a Member, 121.
HOLMES, THOMAS HUGHES.—Elected a Junior, 3.
HOLT, ARTHUR GRANT.—Elected a Member, 161.
HOLTZMAN, STEPHEN FORD.—Transferred to Grade of Member, 490.
HOOD, HUGH KENDALL.—Elected an Associate Member, 52.
HOOD, JAMES HENRY.—Elected an Associate Member, 162.
HOOD, JOHN MIFFLIN, JR.—Transferred to Grade of Member, 397.
HOOVER, C. B.—Discussion by, 121.
HOOVER, HERBERT CLARK.—Elected a Member, 2.
HOPKINS, NEWTON FISHER.—Transferred to Grade of Member, 448.
HOPSON, E. G.—Paper by, 446.
HORAN, JOHN JOSEPH.—Death announced, 120.
HORTON, ROBERT ELMER.—Transferred to Grade of Member, 268.
HOSMER, RALPH HERBERT.—Elected an Associate Member, 531.
HOUGH, D. L.—Discussion by, 51.
HOW, RICHARD WILLIS.—Transferred to Grade of Member, 272.
HOWARD, EDWARD HENRY.—Elected a Member, 266.
HOWE, CLARENCE DURAND.—Elected an Associate Member, 52.
HOWE, HARRY NORTHROP.—Transferred to Grade of Associate Member, 163.
HOWE, HORACE J.—Paper by, 2; Appointed Teller to Canvass Ballot for Officers, 49, 57.
HOWE, WALTER CLARK.—Elected an Associate Member, 267.
HOWIE, HOWARD BENSON WILBERFORCE.—Transferred to Grade of Associate Member, 532.
HOYT, WARREN ALBERT.—Elected a Member, 270.
HUBBARD, DANIEL.—Elected a Junior, 531.
HUBBARD, ISAAC WENDELL.—Transferred to Grade of Member, 4.
HUBER, WALTER LEROY.—Transferred to Grade of Associate Member, 123.
HUDSON, DARWIN SHAW.—Elected an Associate Member, 162.
HUDSON, H. W.—Presents paper, 445.
HUFSCHMIDT, WILLIAM PAUL. —Elected an Associate Member, 447.
HUGHES, JOHN WILBUR.—Elected a Member, 270.
HUGHES, NORMAN.—Elected a Junior, 531.
HUMPHREY, HENRY CYPRIAN.—Death announced, 120.
HUMPHREY, R. L.—Discussion by, 119.
HUMPHREYS, CLIFTON STEWART.—Transferred to Grade of Member, 163.
HUNT, CHARLES WARREN.—Elected Secretary, 55; On Library Committee, 55; On Committee of Arrangements for Annual Convention, 165; On Committee on the Licensing of Civil Engineers, 171.
HUNTER, JOSEPH WRAY.—Elected a Member, 214.
HUTCHINS, EDWARD.—Transferred to Grade of Associate Member, 4.
HUTCHINS, HARRY CROCKER.—Elected a Junior, 122.
HUTCHINS, ROLAND ELLIS.—Elected a Junior, 489.

"Hydrography as an Aid to the Successful Operation of an Irrigation System," presented and discussed, 530.

IRISH, LELAND WESLEY.—Transferred to Grade of Associate Member, 54.

IRVIN, CHARLES RICHARD.—Elected a Junior, 397.

IRWIN, ROGER BROOKE.—Elected an Associate Member, 215; Death announced, 398.

IVES, HOWARD CHAPIN.—Transferred to Grade of Associate Member, 163.

IYER, RAMASWAMIER PANCHANADAM. —Elected an Associate, 447.

JACKSON, WILLIAM. — Death announced, 398.

JACOBSEN, HANS PETTER RUDE. — Elected a Member, 214.

JACOBSON, ALFRED LEON.—Elected an Associate Member, 162.

JAMES, MERTON EARLE.—Elected an Associate Member, 447.

JAPP, HENRY.—Paper by, 1; Discussion by, 2.

JAQUES, JACOB DUNCAN.—Elected an Associate Member, 488.

JAUDON, HENRY SCUDDER.—Transferred to Grade of Member, 53.

JENCKES, LAWRENCE BATES.—Transferred to Grade of Member, 397.

JERVEY, JAMES POSTELL.—Elected a Member, 488.

JEWEL, LINDSEY LOUIN.—Transferred to Grade of Member, 490.

JEWETT, JOHN YOUNG.—Elected an Associate Member, 396.

JOHNSON, LUTHER ELMAN.—Death announced, 265.

JOHNSON, NATT MADISON.—Elected an Associate Member, 447.

JOHNSON, ROBERT CHAN.—Elected an Associate Member, 52.

JONES, JONATHAN.—Elected an Associate Member, 396.

JONES, RALPH HENRY.—Elected a Junior, 3.

JONES, ROBERT SHARP.—Elected an Associate Member, 271.

JONES, WASHINGTON.—Death announced, 398.

JORDAN, MYRON KENDALL.—Elected a Junior, 122.

JORDÁN, RICARDO TOMÁS.—Elected a Member, 446.

KANARY, MARK HENRY.—Elected an Associate Member, 215.

KARNOPP, EDWIN BENJAMIN.—Transferred to Grade of Associate Member, 448.

KAYS, MARION REED.—Elected an Associate Member, 531.

KEATOR, EDWARD ORRIS.—Elected an Associate Member, 267.

KEMPKEY, AUGUSTUS, JR.—Transferred to Grade of Associate Member, 54; Paper by, 159.

KENYON, WILLIAM JOHN CHARLES.—Elected an Associate, 267.

KESNER, HENRY JAMES.—Elected a Junior, 531.

KIMBALL, GEORGE A.—Elected Director, 51, 77; On Finance Committee, 55.

KIMBALL, HERBERT SAWYER.—Elected a Member, 488.

KING, ROY STEVENSON.—Elected an Associate Member, 3.

KINNEY, EDWARD CORNELIUS.—Death announced, 54.

KINNEY, WILLIAM MORTON.—Elected a Junior, 397.

KINSEY, WILLIAM AMBROSE.—Elected an Associate Member, 267.

KITTREDGE, FRANK ALVAH.—Elected a Junior, 122.

KITTREDGE, GEORGE W.—On Library Committee, 55.

KITTREDGE, HARRY CHANDLER. — Elected an Associate Member, 121.

KNAP, JOSEPH M.—Elected Treasurer, 51, 77; Nominated as Treasurer, 450.

KNIGHT, HERBERT MILLER.—Elected a Member, 214.

KOCH, JOHN CHRISTIAN.—Elected an Associate Member, 3.

KOON, JOSEPH BURR.—Elected an Associate Member, 215.

KRONE, ARNOLD HENRY.—Elected an Associate Member, 267.

KUICHLING, E.—Discussion by, 121.

KYLE, RALPH BRIGGS.—Elected an Associate Member, 215.

LAMB, WILLIAM ALFRED.—Transferred to Grade of Associate Member, 216.

LANAGAN, FRANK RAY.—Transferred to Grade of Associate Member, 54.
LAND, JOHN THOMAS.—Elected an Associate Member, 447.
LANE, HARRY ALFRED.—Transferred to Grade of Member, 122.
LANG, FRANK AUGUST.—Elected an Associate Member, 121.
LANT, FRANK PARSONS.—Transferred to Grade of Member, 53.
LARKINS, EDGAR ERNEST.—Elected an Associate Member, 396.
LARUE, EUGENE CLYDE.—Elected an Associate Member, 3.
LAVIS, F.—Paper by, 161; Discussion by, 487.
LAW, WALTER HILLS.—Elected an Associate Member, 267.
LAWTON, RICHARD MACK.—Elected an Associate Member, 215.
LAYFIELD, E. M.—On Committee of Arrangements for Annual Convention, 165.
LAYNG, FRANK RAHN SHUNK.—Transferred to Grade of Associate Member, 216.
LEACH, THOMAS.—Elected a Junior, 271.
LEARNED, ALBERT PREISACH.—Elected a Junior, 531.
LEE, DAVID READ.—Transferred to Grade of Member, 490.
LEE, FRANCIS VALENTINE TOLDERVY.—Elected a Member, 52.
LEFFLER, BURTON RUTHERFORD.—Transferred to Grade of Member, 397.
LEH, ELVIN ULYSSES.—Elected a Member, 266.
LELAND, ORA MINER.—Transferred to Grade of Member, 122.
LEONARD, CLIFFORD MILTON.—Transferred to Grade of Member, 268.
LEONARD, EDWARD PHILIP.—Elected a Junior, 215.
LETTON, HARRY PIKE.—Elected a Junior, 53.
LEWIS, WILLIAM WILLETT.—Elected a Member, 161.
Library.—Accessions to the, 21, 96, 129, 177, 222, 231, 406, 456, 498, 541.
Library Committee.—Appointment of, 55.
LINCOLN, EDWARD LEWIS.—Elected a Junior, 215.
LINDAU, A. E.—Discussion by, 530.
LIVINGSTON, JULIUS I.—Death announced, 163.
Local Associations of Members of the American Society of Civil Engineers.—Abstract of Minutes of Meetings of, 10, 95, 128, 174, 219, 317, 318, 402, 403, 454, 495, 538.
LOCKWOOD, RICHARD JOHN.—Elected an Associate Member, 215.
LOCKWOOD, WILLIAM FREDERICK.—Elected a Member, 446.
LOE, ERIC HALDORSON.—Elected a Member, 52.
LOOMIS, HORACE.—Elected Director, 51, 77; On Finance Committee, 55.
LORD, HAROLD.—Death announced, 530.
LORENZ, GEORGE BENJAMIN.—Elected an Associate Member, 3.
LOWETH, CHARLES F.—Elected Director, 51, 77; On Committee of Arrangements for Annual Convention, 165.
LOWINSON, O.—Discussion by, 51, 52.
LUDLOW, JUSTIN WYMAN.—Transferred to Grade of Associate Member, 123.
LUEDER, ARCHIBALD BYRON.—Elected a Member, 266.
LUSH, CUYLER WARFIELD.—Transferred to Grade of Associate Member, 268.
LYERLY, CHARLES ABNER, JR.—Elected a Junior, 53.
LYNCH, ALEXANDER SYDNEY.—Elected a Junior, 531.

MACCALLA, CLIFFORD SHERRON.—Elected a Member, 121.
MACDIARMID, MILO STUART.—Transferred to Grade of Member, 163.
MACFARLANE, ARTHUR KEDDIE.—Death announced, 530.
MACGREGOR, ROBERT ATHOLE.—Transferred to Grade of Member, 122; Discussion by, 487.
MACHARG, WILLIAM STORRS.—Death announced, 265.
MACK, GEORGE HORACE.—Elected a Junior, 397.
MACVICAR, JOHN DUNCAN.—Elected a Member, 266.
MCBEE, VARDRY ECHOLS, JR.—Death announced, 398.

McCausland, Charles Patterson.—Elected as Associate Member, 531.
McClintock, James Robinson. — Transferred to Grade of Associate Member, 216.
McClure, Harry Clifford.—Elected a Junior, 122.
McClure, Hunter.—Elected a Junior, 3.
McConaghy, Robert Allen.—Elected a Member, 52.
McCullough, Ernest.—Elected a Member, 266.
McDaniel, Allen Boyer.—Transferred to Grade of Member, 532.
McDonald, Hunter.—Elected Vice-President, 51, 77; On Library Committee, 55.
McDonough, James Albert.—Transferred to Grade of Member, 215.
McDowell, R. F.—Discussion by, 121.
McElroy, Fred Woodburn.—Elected a Member, 396.
McFarland, Walter Ashfield.—Elected a Member, 214.
McKay, John Edwards.—Death announced, 268.
McLachlan, Duncan William.—Elected an Associate Member, 531.
McLean, Joseph P.—Discussion by, 160.
McLoud, Paul.—Elected a Member, 396.
McLoughlin, Joseph Navarre. — Elected an Associate Member, 488.
McLure, Norman R.—Discussion by, 52.
McMenimen, William Vincent.—Transferred to Grade of Associate Member, 268.
McMullen, Ray Webb.—Elected a Junior, 271.
McNary, Joseph Vance.—Elected an Associate Member, 271.
McNeil, Arthur James. — Transferred to Grade of Associate Member, 123.
McVean, John Jay.—Death announced, 398.
McWethy, LeRoy.—Elected a Junior, 3.
Maglott, George Frederick.—Elected a Junior, 447.
Magruder, Frank Cecil. — Transferred to Grade of Associate Member, 448.
Maguire, Joseph T.—Discussion by, 530.
Mahon, Ross LeHunt.—Elected an Associate Member, 52.
Mahone, William, Jr.—Elected a Junior, 162.
Malmros, Nils Lorentz.—Elected a Member, 52.
Manchester, Ernest James Theodore.—Transferred to Grade of Member, 448.
Manzanilla y Carbonell, José Justo.—Elected a Junior, 271.
Marden, Henry Herman, Jr.—Death announced, 398.
Marsh, Charles Reed.—Elected a Junior, 271.
Marshall, Urban Serenus.—Elected an Associate Member, 53.
Marston, Frank Alwyn.—Elected a Junior, 122.
Martin, Franklin William.—Transferred to Grade of Associate Member, 54.
Martin, James William.—Transferred to Grade of Member, 163.
Martin, John.—Elected an Associate Member, 267.
Martin, Richard Herbert.—Elected an Associate Member, 447.
Mason, Francis, James H. Brace, and S. H. Woodard.—Paper by, 1.
Mason, William Pitt.—Elected a Member, 52.
Maughmer, Carl.—Elected an Associate Member, 3.
Maurice, George Holbrooke. — Elected a Member, 2.
Maxwell, Donald Hebard.—Elected a Junior, 162.
Mayne, Charles.—Resignation accepted, 4.
Meads, Charles.—Elected a Member, 396.
Means, Howard Chester.—Elected an Associate Member, 271.
Means, Thomas H.—Discussion by, 119.
Mears, Frederick.—Elected an Associate Member, 53.
Meem, James C.—On Nominating Committee, 50, 58; Discussion by, 51; Paper by, 265.

MEEM, JAMES LAWRENCE.—Elected an Associate Member, 447.
MEEM, STEPHEN HALSEY.—Elected a Member, 52.
MEIER, WILLIAM.—Death announced, 123.
Membership.—Additions, 26, 99, 133, 182, 226, 330, 409, 461, 503, 545; Changes of Address, 137, 186, 230, 340, 412, 465, 506; Resignations, 29, 191, 418, 470; Deaths, 30, 101, 140, 192, 236, 350, 418, 470, 510, 548.
MENKE, WILLIAM.—Elected a Junior, 531.
MENSCH, L. J.—Discussion by, 159.
MERCER, C. D.—Resignation accepted, 4.
MERRILL, FARRAND SEYMOUR.—Elected an Associate Member, 162.
MERRILL, OGDEN.—Discussion by, 51.
MERRIMAN, THADDEUS.—Transferred to Grade of Member, 532.
MERRITT, CHARLES EDWARD.—Elected a Junior, 3.
MESSER, HOPE RICHARD.—Elected a Junior, 447.
METCALF, WILLIAM. — Death announced, 2.
Metric System in the United States, Committee on Status of.—Final Report of, 50, 69.
METZGER, LOUIS CHARLES FREDERICK. —Elected an Associate Member, 267.
Mexico.—Request for Recognition of Corporate Membership in the Society in, 164.
MILLER, MAX M.—Discussion by, 488.
MILLER, WALTER EDWARD.—Elected an Associate Member, 267.
MINOR, CYRUS EDWARD.—Elected an Associate Member, 267.
Minutes of Meetings of the Board of Direction, 5, 55, 56, 123, 164, 216, 273, 399, 448, 490, 533.
Minutes of Meetings of the Society, 1, 2, 49, 51, 119, 120, 159, 160, 213, 265, 266, 395, 445, 446, 487, 448, 529, 530, 532.
MITCHELL, LOUIS ADOLPH.—Elected an Associate Member, 267.
MOISSEIFF, LEON S.—Discussion by, 488.
MOLITOR, D. A.—Presents Report of Special Committee on the Status of the Metric System, 50, 69.
MONTFORT, RICHARD.—On Nominating Committee, 50, 59.
Monthly List of Recent Engineering Articles of Interest, 31, 102, 142, 193, 237, 352, 419, 471, 511, 549.
MOORE, EGBERT JESSUP.—Transferred to Grade of Member, 268.
MOORE, LEWIS EUGENE.—Transferred to Grade of Associate Member, 163.
MOORE, WALTER SMYTH.—Elected a Junior, 531.
MOORSHEAD, OLIVER.—Elected an Associate Member, 267.
MOORSHEAD, THOMAS COURTNEY.—Transferred to Grade of Member, 272.
MORGAN, ARTHUR ERNEST.—Elected an Associate Member, 215.
MORITZ, ERNEST ANTHONY.—Transferred to Grade of Associate Member, 4.
MORRILL, ASA HALL.—Elected a Member, 214.
MORRIS, MARSHALL, JR.—Elected a Member, 52.
MORRISON, GEORGE ELDRIDGE.—Elected an Associate Member, 489.
MORSE, GEORGE F.—Discussion by, 119.
MORSE, ROBERT BROOKS.—Elected an Associate Member, 271.
MORSE, WALTER LEVI.—Elected a Member, 214.
MOSLEY, EARL LOUIS.—Elected an Associate Member, 396.
MOTT, THOMAS CLAYTON.—Elected a Junior, 215.
MUCHEMORE, HARRIE LANGDON. — Elected a Junior, 122.
MULLER, LESLIE.—Elected an Associate Member, 53.
MUNKELT, FREDERICK HERMANN.—Elected a Junior, 162.
MUNSON, JOHN GEPHART.—Elected an Associate Member, 396.
MURPHY, JAMES FRANCIS.—Elected a Junior, 267.
MURRAY, JOHN BONAVENTURE. — Elected an Associate Member, 396.
MYERS, GEORGE HIGGINS.—Death announced, 530.

NAGEL, ROBERT.—Elected an Associate Member, 271.

NAGEL, THEODORE.—Elected a Junior, 531.
NAVARRETE, SALVADOR MARIA. — Elected an Associate Member, 121.
NEELY, JOHN THOMPSON.—Elected an Associate Member, 531.
NELSON, ARCHY MAGILL.—Elected a Member, 446.
NEWELL, ROBERT J.—Elected an Associate Member, 53.
NEWTON, JOHN PARSONS.—Elected an Associate Member, 215.
"Nickel Steel for Bridges," awarded the Norman Medal, 52, 55.
NICOL, WALTER HILLIARD.—Elected an Associate Member, 271.
NICOLAYSEN, ALBIN GEORG.—Transferred to Grade of Associate Member, 448.
NIKOLITCH, MILAN.—Transferred to Grade of Associate Member, 163.
NOBLE, ALFRED.—Presides at Meeting, 1; Presents Minority Report of Special Committee on Uniform Tests of Cement, 67; Discussion by, 161; Lecture by, 270.
NOBLE, FREDERICK CHARLES.—Transferred to Grade of Member, 122.
NOLAN, SIMON FRANK.—Elected an Associate Member, 162.
NOLEN, WILLIAM ISAAC.—Elected an Associate Member, 215.
Nominations, Committee on.—Appointment of, 50, 57; Presents List of Nominees, 450.
Norman Medal.—Award of, 52, 55.
"Notes on the Replacing of the Superstructure of the Harlem Ship Canal Bridge," presented and discussed, 2.
NUGENT, PAUL COOK.—Elected a Member, 214.

OAKES, JOHN CALVIN.—Transferred to Grade of Member, 268.
O'BRIEN, DANIEL BERNARD.—Transferred to Grade of Associate Member, 216.
O'CONNELL, GEORGE PAUL.—Elected an Associate Member, 396.
O'DONNELL, CHARLES JEROME. — Elected a Junior, 162.
OGIER, GEORGE RUFUS.—Elected a Junior, 3.
O'HARA, JOSEPH MATTHEW.—Elected an Associate Member, 271.
OKES, DAY IRA.—Elected a Junior, 122.
O'NEIL, HARRY BERNARD.—Elected a Junior, 489.
O'NEIL, JOSEPH.—Elected an Associate Member, 53.
OPDYCKE, H. G.—Discussion by, 51.
O'REILLY, FRANCIS SHERIDAN. — Elected a Junior, 3.
ORR, JOHN.—Elected a Member, 446.
OSTRUP, J. C.—Discussion by, 159, 160.
OVEROCKER, DANIEL WILLETS. — Elected a Junior, 447.
OWEN, JAMES.—Presides at Meeting, 120, 213; On Committee on the Licensing of Civil Engineers, 171.

PAGET, CHARLES SOUNDERS.—Elected an Associate Member, 489.
PALM, THOMAS JEFFERSON.—Elected an Associate Member, 447.
PARET, JOHN WALDO.—Elected a Junior, 53.
PARKER, A. McC.—Resignation accepted, 4.
PARKER, JAMES LAFAYETTE.—Transferred to Grade of Associate Member, 216.
PARLIN, RAYMOND WASHINGTON. — Elected a Junior, 271.
PARRIGIN, FRANK SNOW.—Elected a Junior, 215.
PARSONS, AUGUSTUS TABER.—Transferred to Grade of Associate Member, 448.
PARSONS, HAROLD ASHTON.—Transferred to Grade of Member, 532.
PARTHESIUS, PHILIP HENRY.—Elected an Associate Member, 489.
PATTEN, WILLIAM NICKELS.—Elected a Member, 270.
PATTERSON, IRVING WOOSTER.—Elected a Junior, 3.
PAUL, THEODORE LOCHART.—Elected a Junior, 53.
PAYNE, WILLIAM ARTHUR.—Elected a Member, 52; Discussion by, 160.
PEABODY, ALONZO ORRIN.—Elected a Junior, 271.
PEABODY, LIONEL HENRY, JR.—Transferred to Grade of Associate Member, 4.
PECK, ERMON MILAND.—Elected an Associate Member, 162.

PECK, JOHN GATES.—Transferred to Grade of Member, 490.
PEDEN, LEO THOMAS.—Elected an Associate Member, 267.
PEGRAM, GEORGE H.—Presides at Meeting, 2, 119, 213, 395; On Finance Committee, 55.
PENDLEBURY, EDWARD.—Transferred to Grade of Associate Member, 162.
PERRINE, REN BROWN.—Elected a Member, 266.
PERRY, FRANCIS W.—Discussion by, 265.
PETERS, FREDERIC HATHEWAY. —Elected an Associate Member, 271.
PETERS, JOHN MARVIN.—Transferred to Grade of Associate Member, 490.
PFAU, JULIUS WELCH.—Transferred to Grade of Member, 532.
PHILBROOK, LEE ELMO.—Elected an Associate Member, 215.
PHILLIPS, FREDERICK CLINTON.—Transferred to Grade of Member, 448.
PIRES DO RIO, JOSE.—Elected an Associate Member, 3.
PITTS, THOMAS DORSEY.—Transferred to Grade of Member, 448.
PLUMMER, HORACE EDWARDS.—Transferred to Grade of Associate Member, 54.
POLK, MARTIN COLLINS.—Elected an Associate Member, 489.
POLLEYS, W. V.—Discussion by, 52.
POOLE, RUBLE ISAAC.—Elected a Junior, 531.
PORTER, HARRY F.—Discussion by, 159.
POSS, VICTOR HENRY.—Elected a Member, 161.
POTTER, ALEXANDER.—Discussion by, 121.
POTTS, CLYDE.—Transferred to Grade of Member, 272.
POWELL, MAURICE VERNON.—Elected an Associate Member, 447.
"Precarious Expedients in Engineering Practice," presented and discussed, 119.
"Pressure, Resistance, and Stability of Earth," presented and discussed, 265.
PRESTON, CHARLES HENRY, JR.—Transferred to Grade of Member, 398.
PRICE, DONALD DOUGLAS.—Elected a Junior, 397.
PRICE, WILLIAM EDMUND.—Elected a Junior, 162.
PRITCHARD, JOHN CHARLES.—Transferred to Grade of Associate Member, 448.
PRITCHETT, CHARLES MARCELLUS.—Transferred to Grade of Member, 4.
Prizes, Committee to Recommend the Award of.—Report of, 52, 55.
PROBASCO, SAMUEL R.—Death announced, 54.
PROCTOR, ASA GLISSON.—Elected a Junior, 447.
Publication Committee.—Appointment of, 55.
PURDY, SAMUEL MOREAU.—Elected a Member, 214; Discussion by, 487, 529.

QUICK, ALFRED MERRITT.—Transferred to Grade of Member, 215.
QUIMBY, CHARLES HENRY, JR.—Transferred to Grade of Member, 272.
QUIMBY, JOHN HERMAN.—Elected an Associate Member, 162.

RAIDER, HARRY ADAM.—Elected an Associate Member, 489.
Rail Sections, Committee on.—Progress Report of, 50, 62; Final Report of, 269, 291.
RALDIRIS, J. L.—Telegram from, Relative to Bill for Licensing of Civil Engineers, 160.
RAMSER, CHARLES ERNEST.—Elected a Junior, 122.
RANDOLPH, ISHAM.—On Nominating Committee, 50, 59.
RANDOLPH, RICHARD WOOD.—Elected an Associate Member, 531.
RANDOLPH, ROBERT ISHAM.—Transferred to Grade of Associate Member, 490.
RANDORF, CHARLES ANDREW.—Elected an Associate Member, 531.
RANNEY, CHARLES GARFIELD.—Transferred to Grade of Associate Member, 54.
RAPALJE, HERBERT DEWITT.—Elected an Associate Member, 396.

RASTER, WALTHER.—Transferred to Grade of Member, 532.
RATCLIFF, W. H., JR.—Resignation accepted, 4.
RAY, DAVID HEYDORN.—Transferred to Grade of Associate, 123.
RAYMER, ALBERT REESOR.—Elected a Member, 121.
RAYMOND, ALFRED.—Elected a Member, 396.
REED, WILLIAM B.—Discussion by, 161.
REESE, GEORGE WASHINGTON.—Elected a Junior, 268.
REEVES, HARLEY EDSON.—Elected a Member, 2.
"Remedies for Landslides and Slips on the Kanawha and Michigan Railway," presented and discussed, 395.
Report of Board of Direction, 11, 49, 57.
Report of Board of Direction Relative to the Appointment of Proposed Committee on Preservation of Wood, 269, 273, 282; Discussion on, 283.
Report of Committee on Bituminous Materials for Road Construction, 50, 62, 569.
Report of Committee on Concrete and Reinforced Concrete, 51, 76.
Report of Committee on Engineering Education, 50, 65.
Report of Committee on Steel Columns and Struts, 50, 59; Discussion on, 60.
Report of Committee on the Licensing of Civil Engineers, 269, 299; Discussion on, 303.
Report of Committee on the Status of the Metric System in the United States, 50, 69.
Report of Committee to Recommend the Award of Prizes, 52, 55.
Report of Secretary, 18, 49, 57.
Report of Secretary Relative to Time and Place for Holding Forty-third Annual Convention, 269, 287.
Report of Tellers Appointed to Canvass Ballot for Officers, 51, 77.
Report of Treasurer, 20, 49, 57.
Reports of Committee on Rail Sections, 50, 62, 269, 291.
Reports of Committee on Uniform Tests of Cement, 50, 66.
Resolution of the Board of Direction Relative to Proposed Legislation on the Licensing of Civil Engineers, 160, 164, 171.
Resolution of the Board of Direction Relative to Status of Civil Engineers in Engineer Corps of United States Army, 123.
Resolution Relative to the Appointment of a Committee on the Licensing of Civil Engineers, 161.
Resolution Relative to the Appointment of a Committee on the Preservation of Wood, 121.
REYNOLDS, LEON BENEDICT.—Elected a Junior, 447.
RHETT, ALBERT HASKELL.—Elected an Associate Member, 396.
RHETT, EDMUND MOORE.—Transferred to Grade of Member, 448.
RHINES, GEORGE VOLNEY.—Transferred to Grade of Member, 53.
RHODES, CLAUDE IRVIN.—Transferred to Grade of Associate Member, 123.
RHODES, GLENN VERNON.—Elected a Junior, 215.
RHYS-ROBERTS, EDMUND ALYTH.—Death announced, 2.
RICE, GUY WICKLIFFE.—Elected an Associate Member, 215.
RICE, JOHN MARIE THOMAS.—Transferred to Grade of Associate Member, 532.
RICH, JOHN ROBERT.—Elected an Associate Member, 531.
RICH, MELVIN S.—Transferred to Grade of Associate Member, 268.
RICHARDS, ARTHUR.—Elected a Junior, 3.
RICHARDSON, CLINTON LEROY.—Death announced, 398.
RICHARDSON, JOSHUA WILSON.—Elected a Member, 530.
RICHMOND, JACKSON LETTON.—Elected an Associate Member, 447.
RIGHTER, ADDISON ALEXANDER.—Elected a Member, 2.
RIGHTOR, FRED ELMER.—Elected an Associate Member, 267.
RIGHTS, HERBERT TIMOTHY.—Elected an Associate Member, 162.
RITCHEY, JESSE STEELE.—Elected a Junior, 3.
RITTER, ROLLIN.—Elected an Associate Member, 267.

ROACH, JAMES HOWARD.—Elected an Associate Member, 162.
Road Construction, Committee on Bituminous Materials for.—Progress Report of, 50, 62, 569.
ROBERG, RALPH MASON.—Elected a Junior, 397.
ROBERTS, PERCIVAL, JR.—Elected Director, 51, 77.
ROBERTS, RICHARD FRANCIS.—Elected a Junior, 268.
ROBERTSON, F. E.—Discussion by, 119.
ROBINSON, ERNEST FRANKLIN.—Transferred to Grade of Associate Member, 448.
ROBINSON, GEORGE LOOMIS.—Transferred to Grade of Member, 532.
ROBINSON, JOHN MASON.—Elected a Member, 488.
ROBINSON, STILLMAN WILLIAMS.—Death, announced, 529.
ROBINSON, WILLIAM HARPER.—Elected a Member, 121.
ROGERS, AUGUSTUS WEBSTER.—Elected an Associate Member, 489.
ROLLINS, CHARLES WORD.—Elected a Member, 161.
ROME, LYFORD.—Elected a Junior, 489.
ROSENBERG, THEODORE.—Elected a Member, 2.
ROSTOCK, JOHN HENRY.—Elected a Member, 214.
ROWE, SAMUEL MCMATH.—Death announced, 398.
ROWELL, GEORGE FREEMAN.—Transferred to Grade of Member, 4.
Rowland Prize.—Award of, 52, 55.
ROWNTREE, BERNARD.—Elected an Associate, 162.
RUGGLES, C. A.—Discussion by, 52.
RUNDLETT, LEONARD W.—Nominated as Director, 450.
RUSSELL, S. BENT.—Discussion by, 159.
"Rust, as Shown in the Removal of a Seventeen-Story Building," presented and discussed, 487.
RYAN, WALTER J.—Transferred to Grade of Associate Member, 123.

ST. JOHN, WALTER SHERMAN.—Elected a Junior, 397.
St. Louis, Mo., Members of the American Society of Civil Engineers.—Letter from, 50, 74.
SALAS, RAFAEL ALVAREZ.—Elected a Member, 2.
SAMPLE, JOHN HENDERSON.—Death announced, 265.
SAMUEL, GEORGE FREDERICK.—Elected a Member, 396.
SANBORN, MORTON FRANKLIN.—Elected an Associate Member, 121.
SANFORD, GEORGE OTIS.—Transferred to Grade of Member, 4.
San Francisco Association of Members of the American Society of Civil Engineers.—Amendment to Constitution Relative to Annual Meeting Approved, 56; Abstract of Minutes of Meetings of, 174, 402, 403, 495.
SAUCEDO, VICENTE.—Transferred to Grade of Associate Member, 216.
SAUNDERS, HENRY JENNESS.—Elected an Associate Member, 215.
SAUNDERS, WALTER BOWEN.—Elected an Associate Member, 3.
SAWYER, PERCY.—Transferred to Grade of Associate Member, 4.
SCHERMERHORN, HARVEY OBED.—Elected an Associate Member, 121.
SCHICK, JAMES REESE.—Elected a Member, 121.
SCHRADER, FREDERICK ADOLPH.—Elected an Associate Member, 3.
SCHREIBER, HERMAN VICTOR.—Elected an Associate Member, 121.
SCHULZ, WALTER FREDERICK.—Elected a Member, 446.
SCHUYLER, PHILIP.—Elected an Associate Member, 267.
SCOTT, JAMES ROBINSON, JR.—Elected a Junior, 122.
SCOTT, JOHN KUHN.—Transferred to Grade of Associate Member, 532.
SCOTT, R. D.—Discussion by, 121.
SCOTT, WILLIAM FRY.—Paper by, 530; Discussion by, 530.
SEABURY, ARTHUR G.—Resignation accepted, 4.
SEARIGHT, GEORGE PETER.—Elected a Junior, 489.
SEARS, WALTON HARVEY.—Elected an Associate Member, 162.
SEAVER, CLIFFORD.—Elected an Associate Member, 531.
Secretary.—Report of, 18, 49, 57; Election of, 55; Statement of, Relative to Action of the Society

on Proposed Legislation on the Licensing of Civil Engineers, 160, 171; Report of, Relative to Time and Place for Holding Forty-third Annual Convention, 269, 287.

SEE, RUSSELL ALVA.—Elected a Junior, 447.

SEELEY, HENRY ARTHUR.—Elected a Junior, 3.

SHANLEY, JAMES ROOSEVELT.—Death announced, 398.

SHAPLEIGH, CHARLES HENRY.—Elected a Junior, 271.

SHAW, GEORGE HARRY THORNTON.—Elected a Member, 446.

SHAW, GEORGE HERBERT.—Elected an Associate Member, 162.

SHAW, WALTER FARNSBY.—Elected a Junior, 3.

SHAW, WILLIAM THOMAS.—Elected an Associate Member, 271.

SHEARER, CHARLES ENGLISH.—Elected an Associate Member, 531.

SHEFFIELD, EDWARD NEWTON.—Elected an Associate Member, 162.

SHELEY, HORACE W.—Discussion by, 446.

SHEPHERD, FRANK CUMMINGS.—Transferred to Grade of Member, 53.

SHERMAN, ARTHUR LOUIS.—Elected a Junior, 3.

SHERMAN, EDWARD CLAYTON.—Transferred to Grade of Member, 53.

SHERMAN, LEROY KEMPTON.—Elected a Member, 396.

SHERRERD, M. R.—Discussion by, 119.

SHIPMAN, C. E.—Discussion by, 530.

SHOECRAFT, EZRA COLLIN.—Elected an Associate Member, 396.

SHOEMAKER, LOUIS HENRY.—Transferred to Grade of Member, 398.

SIELING, LOUIS JOHN.—Elected a Junior, 53.

SIKES, ZENAS HARRISON.—Elected an Associate Member, 271.

SILLIMAN, CHARLES.—Elected a Member, 121.

SLATTERY, LAWRENCE PATRICK.—Elected an Associate Member, 53.

SLOCUM, HARRY SPENCER.—Elected an Associate Member, 489.

SMETTERS, SAMUEL TUPPER.—Elected a Member, 396.

SMITH, ALBERT MATHER.—Death announced, 268.

SMITH, CHESTER ALEXANDER.—Elected an Associate Member, 162.

SMITH, DONALD DAVID.—Elected an Associate Member, 396.

SMITH, EDWARD SHEPPARD.—Elected an Associate Member, 531.

SMITH, ELIOT NICHOLS.—Transferred to Grade of Associate Member, 272.

SMITH, G. E. P.—Discussion by, 214.

SMITH, HARRADON STERLING.—Transferred to Grade of Member, 163.

SMITH, J. WALDO.—Lecture by, 270.

SMITH, KARL GARTHWAITE.—Elected an Associate Member, 215.

SMITH, LAYTON FONTAINE.—Transferred to Grade of Member, 163.

SMITH, LEWIS RUFFNER, JR.—Elected a Junior, 531.

SMITH, WILLIAM DURKEE.—Elected a Junior, 447.

SMOLEY, CONSTANTINE KENNETH.—Elected an Associate Member, 271.

SMOYER, LLOYD ISADORE.—Elected a Junior, 447.

SNELL, JOSEPH EMMETT.—Elected an Associate Member, 162.

SNELL, ROY MARTIN.—Elected an Associate Member, 396.

SNOW, JONATHAN.—Nominated as Director, 450.

SOEST, HUGO CONRAD.—Elected a Junior, 268.

"Some Mooted Questions in Reinforced Concrete Design," presented and discussed, 159.

SOMMER, ALBERT.—Elected an Associate, 53.

SOPER, RALPH CARROLL.—Death announced, 398.

SOULE, EDWARD LEE.—Transferred to Grade of Associate Member, 4.

SPAULDING, RALPH EDGAR.—Elected a Junior, 268.

SPEAKMAN, RICHARD EDWARD.—Elected a Member, 2.

SPELMAN, JOHN RODGERS.—Elected an Associate Member, 531.

SPENCER, FRANK NORTON.—Elected an Associate Member, 271.

SPERRY, AUSTIN RUSSELL WILLARD.—Elected a Junior, 531.

SPRAGUE, NORMAN SALISBURY.—Transferred to Grade of Member, 268.

SPROUL, ARCHIBALD ALEXANDER.—Death announced, 265.
STABLER, HERMAN.—Elected an Associate Member, 489.
STADEL, GEORGE HENRY.—Elected a Junior, 397.
STANLEY, ORRIN ELMORE.—Transferred to Grade of Member, 268.
STANSBURY, HERBERT EARL.—Elected an Associate Member, 215.
STANTON, HARRY SEEL.—Elected a Junior, 447.
STANTON, ROBERT BREWSTER, JR.—Elected a Junior, 122.
STANTON, WILBOR DICKENS.—Transferred to Grade of Associate Member, 216.
STARR, WILLIAM WRIGHT.—Death announced, 54.
Steel Columns and Struts, Committee on.—Progress Report of, 50, 59; Discussion on Progress Report of, 60.
STEINMAN, DAVID BERNARD.—Elected a Junior, 122.
STEPHENSON, JAMES, JR.—Elected a Member, 161.
STERN, E. W.—Discussion by, 119.
STEVENS, HAROLD CONVERSE.—Elected an Associate Member, 271.
STEVENS, J. C.—Paper by, 530.
STICKLE, HORTON WHITEFIELD.—Elected a Member, 446.
STILES, OTHO WILLIAM.—Elected an Associate Member, 531.
STILSON, CHARLES EDWARD.—Elected a Junior, 122.
STOTT, HENRY G.—Discussion by, 213; Nominated as Director, 450.
STOWE, HAROLD CLAIR.—Transferred to Grade of Member, 4.
STRAHAN, CHARLES MORTON.—Transferred to Grade of Member, 490.
STRAIN, BENJAMIN.—Elected a Junior, 162.
STRAUB, THEODORE ALFRED.—Elected a Member, 270.
STRICKLER, FREDERICK WINEMAN.—Elected an Associate Member, 531.
STRICKLER, THOMAS JOHNSON.—Elected an Associate Member, 215.
STROBEL, CHARLES L.—Nominated as Vice-President, 450.
STROHL, RICHARDS MERLE.—Elected a Junior, 268.
STRONG, CARLTON.—Elected a Member, 2.
STROUSE, W. F.—Paper by, 487.
STUART, FRANCIS LEE.—On Publication Committee, 55; On Committee of Arrangements for Annual Convention, 165.
STURGEON, GEORGE BLAIR.—Elected an Associate Member, 267.
SUAREZ Y CORDOVES, PATRICIO ANDRES.—Transferred to Grade of Associate Member, 490.
SULLIVAN, JAMES HENRY.—Elected a Member, 214.
SULLIVAN, JOHN FRANCIS.—Elected an Associate Member, 3.
SULLIVAN, MURRAY.—Elected an Associate Member, 397.
SUN, TAOYUH CLARANCE.—Elected a Junior, 447.
SUNDSTROM, ALFRED YNGVE.—Transferred to Grade of Member, 268.
SWENDSEN, WARREN G.—Elected an Associate Member, 531.
SWENSSON, EMIL.—On Publication Committee, 55.
SWETT, WILLIAM CLAUDE.—Elected a Junior, 489.
SWIFT, WILLIAM EVERETT.—Transferred to Grade of Member, 272.
SYMONS, THOMAS W.—Resignation accepted, 4.

TALBOT, A. N.—Discussion by, 530.
TALLMAN, PAUL BERTRAM.—Transferred to Grade of Associate Member, 398.
TARVER, THOMAS CARY, JR.—Elected an Associate Member, 397.
TATUM, SLEDGE.—Elected a Member, 2.
TAYLOR, EDWARD BALLINGER, JR.—Elected an Associate Member, 397.
TAYLOR, GEORGE BLANEY.—Elected a Junior, 215.
TAYLOR, GORHAM ANDREW.—Elected a Member, 52.
TAYLOR, NORMAN ALFRED.—Death announced, 398.
TAYLOR, W. GAVIN.—Discussion by, 121.
TEBBETTS, GEORGE EDWARD.—Elected an Associate Member, 3.

Tellers.—Appointed to Canvass Ballot for Officers, 49, 57; Report of, 51, 77.
TEMPLE, E. B.—Paper by, 266.
TENNEY, WILLIAM FIELD.—Elected an Associate Member, 489.
TERRY, ARTHUR LINVILLE, JR.—Transferred to Grade of Associate Member, 272.
TERRY, FRANCIS MARION.—Elected a Junior, 271.
THAYER, NATHANIEL AUGUSTINE.—Elected a Junior, 162.
"The Arch Principle in Engineering and Esthetic Aspects, and Its Application to Long Spans," presented and discussed, 488.
"The Effect of Alkali on Concrete," presented and discussed, 119.
"The Electrification of the Suburban Zone of the New York Central and Hudson River Railroad in the Vicinity of New York City," awarded the Thomas Fitch Rowland Prize, 52, 55.
"The Failure of the Yuba River Débris Barrier, and the Efforts Made for Its Maintenance," presented and discussed, 529.
"The Improved Water and Sewage Works of Columbus, Ohio," presented and discussed, 121.
"The New York Tunnel Extension of the Pennsylvania Railroad: Contractor's Plant for East River Tunnels," presented and discussed, 1.
"The New York Tunnel Extension of the Pennsylvania Railroad: Meadows Division and Harrison Transfer Yard," presented, 266.
"The New York Tunnel Extension of the Pennsylvania Railroad: The Bergen Hill Tunnels," presented, 161.
"The New York Tunnel Extension of the Pennsylvania Railroad: The East River Tunnels," presented and discussed, 1.
"The New York Tunnel Extension of the Pennsylvania Railroad: The Lining of the Four Permanent Shafts of the East River Division," presented, 445.
"The New York Tunnel Extension of the Pennsylvania Railroad: The Long Island Approaches to the East River Tunnels," presented, 445.
"The New York Tunnel Extension of the Pennsylvania Railroad: The North River Tunnels," presented, 266.
"The New York Tunnel Extension of the Pennsylvania Railroad: The Site of the Terminal Station," presented, 214.
"The New York Tunnel Extension of the Pennsylvania Railroad: The Sunnyside Yard," presented, 445.
"The New York Tunnel Extension of the Pennsylvania Railroad: The Terminal Station—West," presented, 161.
"The Reconstruction of the Passenger Terminals at Washington, D. C.," presented, 487.
"The Sinking of the Piers for the Grand Trunk Pacific Bridge, at Fort William, Ontario, Canada," awarded the Collingwood Prize, 52, 56.
"The Tieton Canal," presented and discussed, 446.
"The Water Supply of the El Paso and Southwestern Railway, from Carrizozo to Santa Rosa, N. Mex.," presented and discussed, 214.
THOMPSON, ARTHUR WEBSTER.—Transferred to Grade of Member, 163.
THOMPSON, SAMUEL C.—Presides at Meeting, 445.
THOMSON, GEORGE HUNTINGTON.—Death announced, 120.
THOMSON, R. H.—On Nominating Committee, 50, 59.
THOMSON, T. KENNARD.—Paper by, 51, 487; Discussion by, 51, 52, 265, 487.
THORNTON, CHARLES JAMES.—Elected a Member, 396.
TIBBETTS, FRANK LESLIE.—Elected an Associate Member, 3.
TIERNAN, A. K.—Resignation accepted, 4.
TILLSON, GEORGE W.—On Committee on the Licensing of Civil Engineers, 171.
TIMBERLAKE, SETH MARTIN.—Elected a Junior, 122.

TINKHAM, RALPH RUSSELL.—Transferred to Grade of Associate Member, 398.
TOLLES, FRANK CLIFTON.—Elected a Junior, 268.
TOMBO, CARL.—Transferred to Grade of Associate Member, 4.
TOMPKINS, CHARLES HOOF.—Elected an Associate Member, 531.
TOOPS, GEORGE NOBLE.—Elected a Junior, 162; transferred to Grade of Associate Member, 448.
TORRALBAS, RAFAEL JOAQUIN.—Elected a Junior, 489.
TOWSON, M. S.—Resignation accepted, 4.
TRASK, WARREN DUDLEY.—Elected a Junior, 53.
TREADWELL, WILLIAM ADAMS.—Transferred to Grade of Associate Member, 54.
Treasurer.—Report of, 20, 49, 57.
TRELEASE, FRANK JOHNSON.—Elected a Junior, 215.
TROTT, DAVID CROOKER.—Elected an Associate Member, 397.
TRUE, ALBERT OTIS.—Transferred to Grade of Associate Member, 268.
TRUMBULL, MORRIS KINNARD.—Elected a Member, 161.
TWYMAN, A.—Resignation accepted, 4.

UHLER, WILLIAM DAVIS.—Transferred to Grade of Member, 122.
"Underpinning the Cambridge Building, New York City," presented and discussed, 51.
UNGRICH, MARTIN JACOB.—Elected an Associate Member, 121.
UPTON, JOSEPH.—Elected a Junior, 489.

VAN DER HOEK, JACOBUS.—Death announced, 4.
VENT, FREDERICK GOODMAN.—Elected a Member, 214.
VERNON, STEPHEN BARKER.—Elected an Associate Member, 3.
VINCENT, JAMES IRVING.—Elected a Member, 270.
VREDENBURGH, WATSON, JR.—Transferred to Grade of Member, 122.

WADE, GEORGE WILLIS.—Elected an Associate Member, 489.
WADDELL, CHARLES EDWARD.—Elected a Member, 121.
WADDELL, J. A. L.—Awarded the Norman Medal, 52, 55.
WADSWORTH, H. H.—Paper by, 529.
WAGNER, FRED J.—Transferred to Grade of Member, 398.
WAGNER, SAMUEL TOBIAS.—Discussion by, 121.
WAIT, J. C.—Discussion by, 52.
WAITE, DONALD CRAMER.—Transferred to Grade of Associate Member, 163.
WAITT, ARTHUR M.—Resignation accepted, 4.
WALKER, ALBERT WILLARD.—Elected an Associate Member, 215.
WALKER, EMERY LAFAYETTE.—Elected a Member, 214.
WALL, EDWARD WALTER.—Elected a Junior, 531.
WARD, WALTER.—Elected an Associate Member, 215.
WARDLE, EDWARD BEAUMONT.—Transferred to Grade of Member, 268.
WARE, HOWARD THOMAS.—Elected a Junior, 447.
WARING, CHARLES THOMAS.—Elected an Associate Member, 121.
WARLOW, ADONIRAM JUDSON.—Transferred to Grade of Associate Member, 532.
WARNER, GLENN.—Elected a Junior, 3.
WARNER, JOHN ELLIOTT.—Elected an Associate Member, 397.
WASHBURN, DELOS CUYLER.—Elected a Member, 214.
WATERBURY, LESLIE ABRAM.—Transferred to Grade of Associate Member, 272.
WEBER, DANIEL RISHEL.—Elected a Junior, 122.
WEBSTER, FRANK WALLACE.—Death announced, 163.
WEEDIN, KIRBY CALHOUN.—Elected a Member, 161.
WEIDMAN, WILLIAM ROE.—Elected a Member, 52.
WEIDNER, CARL ROBERT.—Transferred to Grade of Associate Member, 163.
WEINSTOCK, HARRY HERSCHEL.—Elected an Associate Member, 271.

WEST, O. J.—On Committee of Arrangements for Annual Convention, 165.
WESTOVER, HENRY CHRISTOPHER.—Transferred to Grade of Associate Member, 163.
WETHERELL, DWIGHT NELSON.—Elected a Junior, 489.
WHEAT, GEORGE NEVILLE.—Elected an Associate Member, 3.
WHEELER, BERTRAND THORP.—Elected a Member, 270.
WHEELER, HARRY ROBERTS.—Transferred to Grade of Member, 122.
WHIPPLE, ROBERT LEE.—Elected an Associate Member, 397.
WHITAKER, RALPH WALLACE.—Elected an Associate Member, 162.
WHITAKER, WILLIAM FRANKLIN.—Transferred to Grade of Associate Member, 398.
WHITBECK, LEE FIELD.—Transferred to Grade of Associate Member, 490.
WHITCOMB, HENRY DONALD.—Death announced, 54.
WHITED, WILLIS.—Transferred to Grade of Member, 490.
WHITMAN, EZRA BAILEY.—Transferred to Grade of Member, 272.
WHITMAN, KILBORN, JR.—Elected a Junior, 397.
WHITNEY, THOMAS BRYAN, JR.—Transferred to Grade of Member, 163.
WHITSIT, LYLE ANTRIM.—Transferred to Grade of Associate Member, 398.
WHITTEMORE, LESLIE CLIFFORD.—Elected a Junior, 215.
WHITTIER, THOMAS TUPPER.—Elected a Member, 266.
WILCOCK, FREDERICK.—Transferred to Grade of Associate Member, 4.
WILCOX, CLARK LUZERNE.—Transferred to Grade of Associate Member, 123.
WILCOX, FRANK LESLIE.—Transferred to Grade of Associate Member, 54.
WILDER, ELLWOOD COGGESHALL.—Elected a Junior, 271.
WILEY, H. L.—Awarded the Collingwood Prize, 52, 56.
WILGUS, W. J.—Awarded the Thomas Fitch Rowland Prize, 52, 55.
WILHELM, GEORGE.—Elected an Associate Member, 447.
WILKERSON, THOMAS JEFFERSON.—Transferred to Grade of Member, 398.
WILKINS, GEORGE SHREVE.—Death announced, 532.
WILKINS, WILLIAM G.—Discussion by, 52; On Finance Committee, 55.
WILLCOX, JAMES DEWITT.—Elected a Junior, 53.
WILLIAMS, ENRIQUE RUIZ.—Elected an Associate Member, 531.
WILLIAMS, GARDNER S.—Presides at Meeting, 51, 488.
WILLIAMS, HAROLD S.—Transferred to Grade of Associate Member, 163.
WILLIAMS, JOHN NORMAN SPENCER.—Elected a Member, 161.
WILLIAMS, LEROY DUNCAN.—Transferred to Grade of Associate Member, 268.
WILLIAMSON, HARRY.—Elected an Associate Member, 447.
WILSON, H. M.—Paper by, 213; Discussion by, 213.
WILSON, RODNEY MELLEDGE.—Elected a Junior, 268.
WILSON, WILLIAM EDWARD.—Transferred to Grade of Member, 272.
WILSON, WILLIAM RENFREW.—Elected an Associate Member, 3.
WILTSEE, WILLIAM PHARO.—Transferred to Grade of Member, 122.
WINSLOW, C.-E. A.—Discussion by, 121.
WINSLOW, CARLILE PATTERSON.—Elected an Associate Member, 121.
WINSOR, HARRY DRAPER.—Elected a Junior, 122.
WOERMANN, FREDERICK CHRISTIAN.—Elected a Member, 530.
WOLFF, LOUIS PETER.—Elected a Member, 270.
WOLFF, MAX W.—Resignation accepted, 4.
WOOD, DETHIC HEWITT.—Transferred to Grade of Member, 490.
Wood, Committee on the Preservation of.—Correspondence Relative to Appointment of, 120; Resolution Relative to Appointment of, 121;

Report of Board of Direction Relative to Appointment of, 269, 273, 282; Discussion on Appointment of, 283.
WOODARD, S. H., JAMES H. BRACE and FRANCIS MASON.—Paper by, 1.
WOODRUFF, CHARLES WILLIAM.—Elected a Junior, 3.
WORCESTER, J. R.—On Nominating Committee, 50, 58.
WORK, JOE YOUNG.—Elected an Associate Member, 215.
WRIGHT, JOHN BERTRAM.—Transferred to Grade of Member, 268.
WRIGHT, JOSEPH.—Discussion by, 159.
WRIGHT, PARKER O., JR.—Elected a Member, 2.

YARNELL, DAVID LEROY.—Elected a Junior, 162.
YATES, E. A.—Discussion by, 51.
YEO, WILLIAM HERBERT WATT.—Elected an Associate Member, 53.
YOUNG, SAMUEL MCCAIN.—Transferred to Grade of Member, 398.